

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number
WO 2004/032080 A1

(51) International Patent Classification⁷: **G08B 13/186**

(21) International Application Number:
PCT/KR2002/001644

(22) International Filing Date: 30 August 2002 (30.08.2002)

(25) Filing Language: Korean

(26) Publication Language: English

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CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

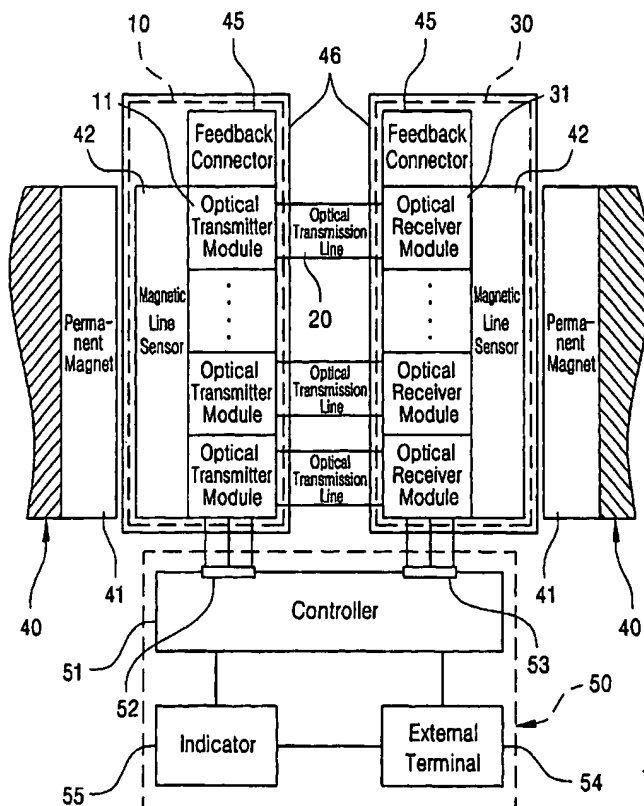
Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

(54) Title: FIBER OPTIC SECURITY SYSTEM AND CONTROL METHOD THEREOF



(57) Abstract: The invention relates to a fiber optic security system and control method thereof which, in detail, is embodied by plural channels each comprising an optical transmitter module, an optical transmission line, and an optical receiver module. The invention is easy to install on windows, doors or fences which need to be secured and improves the degree of security by means of operating the plural channels at random sequence. The present invention takes the effect that the invention makes it possible to cope flexibly with the actual spot to be installed by connecting plural channels each comprising an optical transmitter module, an optical transmission line, and an optical receiver module in order to cope with the dimension of the actual spot to be installed, and by cutting the plastic optical fibers in order to cope with the length of the actual spot to be installed, to maintain conveniently due to the ability of replacing channels one by one, and to reduce maintenance expenses. Besides, the present invention can make it possible to be seen through and to obtain fine appearance because of using the plastic optical fibers, and to prevent hackings and to improve the degree of security because of checking detection signals non-sequentially.